ON SOME INVALID MOLLUSCAN GENERIC NAMES.

By Tom IREDALE.

Read 12th June, 1914.

Whilst engaged upon the verification of the generic and specific names to be used for molluscs from the Kermadec Islands, Lord Howe Island, Norfolk Island, and New Zealand, I have made quite a number of interesting notes. I here put on record some of those that are of more than local interest, and introduce some extra-limital corrections.

I wish here to draw attention to the very imperfect manner in which generic names given to Mollusca have been recorded, and, as I should think that the class in which we are interested does not form an exception, the grave danger there is in depending upon the usual Nomenclators when introducing new generic names. I find that a very large number of comparatively well-known molluscan names included by Fischer in his Manuel de Conchyliogie do not appear in Sharp's Index Zoologicus, Nos. i and ii. As a matter of fact, I conclude that it is due to the general familiarity of malacologists with Fischer that serious confusion has not been caused. With regard to Miodon, upon which I give a note, neither of the displacing names occur in the Index Zoologicus, though both appeared in the period 1880-1900. As an example of this imperfection I think it advisable to give the following extraordinary case. Referring to Fischer's Manuel I note the following names quoted and introduced, but omitted from the Index Zoologicus:-

> p. 850. Tulantodiscus, Fischer, 1885. "", Pyrgotrochus, Fischer, 1885. "", Perotrochus, Fischer, 1885.

., Chelotia, Bayle, 1885.

,, Entemnotrochus, Fischer, 1885. ,, Ptychomphalina, Bayle, 1885. ,, Ptychomphalus, De Koninck, 1883.

Gosseletina, Bayle, 1885.

,, Gosseletia, De Koninck, 1883.

,, Gosseletia, Barrois, 1881. ,, Pithodea, De Koninck, 1881.

., Mourlonia, De Koninck, 1883. Agnesia, De Koninck, 1883.

p. 851. Worthenia, De Koninck, 1883.

., Phanerotrema, Fischer, 1885. ,, Rhineoderma, De Koninck, 1883.

., Yvania, Bayle, 1885.

,, Baylea, De Koninck, 1883.

,, Luciella, De Koninck, 1883.

That nineteen unrecorded names should appear on two consecutive pages of Fischer's Mauuel is of course extraordinary, but on almost every page, wherever many names occur, I note unrecorded examples. As above stated, through the general usage of malacologists of Fischer's Manuel, we have not felt this omission deeply, but it is probable that other branches will have suffered, and I note Agnesia included in the Index Zoologicus as having been introduced by Michaelsen in 1898 for a Tunicate. The reverse case of course affects us, i.e. that names proposed in other classes of zoology have likewise been omitted from the Index Zoologicus, and that such may invalidate apparently unassailable names given by malacologists. I cannot suggest any remedy to provide for the protection of malacologists in such instances.

Adeorbis, Searles Wood.

In these Proceedings (vol. ix, p. 259, 1911) I published a note drawing attention to Sacco's usage of "Tornus, Turton, 1829", in place of Adeorbis, Searles Wood, 1842, and asked for confirmation or otherwise. An immediate result was the receipt from Dr. W. H. Dall of a reference to British Conchology, vol. iv, p. 231, 1867, where Jeffreys wrote: "Searles Wood was anticipated in giving a name to the present genus. In an 'Enumeration of Marine Shells' found on the South Devon coast, published in 1829 (a copy of which was presented to me by Dr. Turton 'from the author'), the genus Tornus, signifying a turner's wheel or lathe, was characterized as follows:—'Shell orbicular, depressed, aperture oval or roundish; pillar none. Operculum horny. Includes Helix subcarinata.' This publication was anonymous, a circumstance which may deprive the author of the right of precedence according to the laws of scientific nomenclature. I therefore retain Adeorbis, although the other name is preferable.'

At that time I could not trace the publication Jeffreys mentions, so the matter had to be shelved. Consequently Hedley, introducing the new genus Naricava (Proc. Linn. Soc. N.S.W., vol. xxxviii, p. 294, 1913), commented: "It has been indicated by Iredale that Adcorbis may be replaced by Tornus, but this is not established." It is with very great pleasure that I now complete my tale, and

eliminate all doubt concerning the genus-name Tornus.

As long ago as 1903 Mr. B. B. Woodward had seen this name, but, comparatively uninterested in marine shells, had failed to note its significance. I obtained my clue from a footnote published by him in the Journ. Conch., vol. x, p. 359, 1903, with regard to the genus-name *Odontostoma*. There will be found details practically as

here given.

A book entitled *The Teignmouth, Dawlish, and Torquay Guide*, by N. T. Carrington and others, was published at Teignmouth, and also sold at Exeter, London, etc. Part ii bears on the title-page "The | Natural History | of | the District; | or, | Lists | of | the different species | of | animals, vegetables, and | minerals, | and their respective localities, | scientifically arranged; | with References to the best Standard Works in which | they are figured and described: | together with | a Geological Account | of | the rock strata, and the fossils | contained in them. | By | W. Turton, M.D., and J. F. Kingston."

There is no pagination to the pages, but conchology occupies about twenty-five pages, and this is succeeded by an article entitled "Conchology, arranged on the amended system". Therein the families are indicated with succinct diagnostic sentences; then the genera are also shortly described, whilst species belonging to each genus are named. In the present instance the matter reads thus:—

"TURBINACIDE. Pillar without plaits—shell conic or elongated; aperture roundish or oblong, never expanded, with the lips either

united or separated.

"Tornus. Shell orbicular, depressed; aperture oval or roundish; pillar none. Operculum horny.

"Includes Helix subcarinata."

It will at once be observed that this is word for word the matter quoted by Jeffreys, and we can now assume that the "Enumeration" was identical with the conchology included in the Guide. So far I have not seen a copy of the "Enumeration", but under the present circumstances this does not matter much. It is seen that Jeffreys gives the date of the "Enumeration" as 1829; the Guide is undated, but Mr. Sherborn kindly made inquiries, with the result that 1830 can be safely taken as date of publication; this suggests that Turton's anonymous "Enumeration" was probably printed first. The inevitable conclusion is that

Tornus, Turton & Kingston, 1830,

must replace Adeorbis, Searles Wood, 1842.

I carefully studied all the names given in this work, as no suggestion of novelty is attached to any, with the result that one other new introduction was noted. In this case, however, no change

is necessary.

Haminea is generally quoted as of the Proc. Zool. Soc., 1847 (November, 1847), but I had noted that it appeared earlier in the Ann. Mag. Nat. Hist., vol. xx, p. 268, October 1, 1847, where it was spelt as Haminea. I now trace it back to 1830, as this is included, thus: "Haminea. Shell thin, somewhat globular, without spire; aperture narrow, as long as the shell. Includes Bulla hydatis." We must therefore quote

Haminea, Turton & Kingston, 1830.

I have now acquired an interesting copy of this work, which shows that the natural history portion was also published separately. The title-page and contents are exactly as in the complete work, but no reference to the principal title-page, of which this is "Part II", is given. It is in the original cloth covers as published, and on the outside cover exactly the same wording with the exception of the words "Part II" is printed. Down the back, however, appears the following wording: "Guide | to the | Watering | Places. | Vol. II | The | Natural | History | of the | District | 1830. | "

This is again important, as we have here definite evidence of the date which was previously missing. There is no connexion here given with Carrington's Guide, so that such a copy would be easily quoted as "The Natural History of the District, by W. Turton and

J. F. Kingston". The limits of the "District" would rest in the imagination of the reader.

Modiolarca, Gray.

This genus-name first appears in the Synopsis of the Contents of the British Museum, 42nd ed., p. 151, 1840, where, associated with Crenella, the two genera constitute the family Crenellidæ. I have shown in my Collation of these Synopses (these Proceedings, vol. x, pp. 294-309, 1913) that here the genus-names are all absolutely nomina nuda. On p. 306 I noted that in the forty-fourth edition short diagnostic remarks were added, and quoted those referring to this generic name, which read "(p. 82) The Crenellæ are suborbicular and the Modiolariæ ovate elongated shells", and added a "Note: Modiolarca, 1840, is thus a misprint for Modiolaria".

Further investigation shows this conclusion to have been incorrect, and that we have here another instance of Gray's juggling with

names, as in the case of Livona.

In Dieffenbach's Travels in New Zealand, vol. ii, p. 259, 1843, Gray included

" Modiolarca impacta.

Mytilus cor, Martyn, U.C., t. 77.

Myt. impactus, Hermann, Naturf., xvii, 147, t. 3, f. 5-8, xix, 183; Wood, Cat., 59, f. 40.

M. discors, Australis, Chemn., viii, f. 768.

Modiola discor, Lam., vi, p. 16.

Myt. lanatus, Calonne, Cat., 43.

Inhab. New Zealand, Dr. Solander; Bay of Islands, Dr. Sinclair;

East Cape, Dr. Dieffenbach."

This is the first recognizable introduction of the genus-name *Modiolarca*, and as it is associated with *impacta* it must fall as a synonym of the earlier *Modiolaria*. It is now obvious that the name was intended by Gray for the species now called *Modiolaria*, but that in 1847 when he drew up his List of the Genera of Recent Mollusca (Proc. Zool. Soc., 1847, p. 129 et seq.), recognizing Beck's prior name, he deliberately transferred his genus-name to a different group.

Sentimentally it grieves me to part with the genus-name Modiolarca, as it will ever be associated in my memory with my discovery of its existence on the mainland of New Zealand, and my personal acquaintance with it and its strange habits (Trans. New Zeal. Inst.,

vol. xl, 1907, pp. 386-7, 1908).

As a delightful recompense, however, I found the available substitute was none other than

GAIMARDIA, Gould, U.S. Expl. Exped., vol. xii, p. 459, 1852.

The loss of *Modiolarca* seems more than balanced by the restoration to active use of the genus-name given to honour one of the two most famous shell collectors that have ever visited the shores of New Zealand. It was my unfortunate lot to consign to synonymy the genus-name *Quoyia* (these Proceedings, vol. ix, p. 259, 1911), and I tried to make amends by the introduction of the genus-name *Quoyula*

(these Proceedings, vol. x, p. 221, 1912). That I should have the pleasure of reinstating Gaimardia, even at the loss of Modiolarca, seems a fitting reward for my unwilling, but inevitable, rejection of

Quovia.

I have just observed that Scudder, in his Nomenclator Zoologicus, pt. i, p. 215, 1882, noted the confusion, but interpreted it in the contrary manner to my explanation, thus: "Modiolaria, Gray., Syn. Brit. Mus., p. 82 (Err. typ. pro Modiolarca) 1842. Moll. Biv." Moreover, as usual, I see that Dr. Dall in his magnificent essay on the Tertiary Mollusca of Florida, published in the Transactions of the Wagner Free Institute of Science, Philadelphia, comments (vol. iii, pt. iv, pp. 804-5, 1898-9) on the spelling in Dieffenbach, which, however, he only knew at second-hand, quoting Hutton's misspelling as Modiolacra. Dall concluded that such a spelling could only be regarded as a typographical error. The facts, however, as now known and here presented, show, I think conclusively, that Gray really invented the name Modiolarca for the Crenelloid molluses. If we accept the derivation of the name as Modiola and Arca, the name is quite applicable to these, whilst it as certainly would scarcely be suggested by the type species of the later-named Modiolarca, as I see little resemblance to either Modiola or Arca in this shell. However, it is little use theorizing as to the origin of any Grayian name, as I conclude that the systems upon which J. E. Gray made names are beyond the ken or the imagination of later workers.

PANDA, Albers.

According to Scudder's Nomenclator, *Panda*, Albers, is invalid through preoccupation. It is notorious that Albers introduced names quite commonly in use in other branches of zoology, and I could scarcely think such a case as this could have been overlooked.

Panda was introduced as of Albers by Martens in the second edition of Die Heliceen, 1860, p. 149, the type, by original designation, being Helix falconari, Reeve. Scudder noted a prior Panda. Van Heyden, 1826, and upon reference I find Van Heyden lawfully proposed the

name in the Isis (Oken), 1826, col. 612.

In the Proc. Linn. Soc. N.S.W., vol. xxxvii, p. 254, pl. iv, figs. 1-4, 1912, Hedley described a most beautiful molluse as *Panda whitei*, making, according to his conclusions, the fourth species of the genus, his revision of twenty years earlier having reduced the recognizable species to three only (Rec. Austr. Mus., vol. ii, p. 29, 1892), viz.,

falconeri, Gray, atomata, Gray, and larreyi, Brazier.

No generic synonymy being known to me, I referred to the Man. Conch., ser. 11, vol. xviii, p. 122 et seq., 1900, where Pilsbry used Panda, and gave no synonyms. Reference to the famous vol. ix, p. 163, 1894, showed that Pilsbry made use of Panda, but extraordinarily enough he cited the prior usage of the name by Van Heyden, but did not rectify the error. As the invalidity of the name has thus been on record for exactly twenty years without action being taken, I propose to remedy the defect by renaming the genus

HEDLEYELLA.

The four species above named will constitute the genus, the type remaining as *H. falconeri* (Gray). It is not without misgiving that I thus transgress upon my fellow-worker's territory, but I have long wished the opportunity of associating the name of my friend Mr. Charles Hedley with some notable shell, and I do not anticipate such a splendid chance again. The genus comprises the most interesting and magnificent land shells of Australia, and I sincerely hope that my "industry will not prove abortive", to quote my friend's remarks on a like occasion.

Penion, Fischer.

In these Proceedings (vol. x, p. 223, 1912) I advocated the usage of *Penion* for the Austro-Neozelanic molluses classed under *Siphonalia*, and rejected the transference of *Siphonalia maxima*, Tryon, to *Megalatractus*, declaring that species to be absolutely congeneric with

Fusus dilatatus, Quoy & Gaimard.

Hedley in a paper on Mollusca from the Great Australian Bight (Biol. Rec. Fishing Exp. Endeavour, vol. ii, pt. ii, p. 73, 1914) has accepted my data, and has recorded Penion maximus, Tryon, and P. waitei, Hedley. I further find that Dr. Verco in the Trans. Roy. Soc. South Austr., vol. xxxvi, p. 221, 1912 (1913), has gone so far as to synonymize Siphonalia maxima, Tryon, with Fusus dilatatus, Quoy and Gaimard.

It has been decided that errors of transliteration may be amended: this decision, given by the International Commission on Zoological Nomenclature, has the effect of causing the rejection of *Penion*, as there is a prior *Penium*¹ (Philippi, Verh. Zool.-botan. Gesell. Wien, vol. xv, p. 741, 1865). These two names are simply the same, one being wrongly transliterated, and cannot both be maintained. I have therefore to propose the genus-name

VERCONELLA

to replace *Penion*, Fischer, and maintain the same type, *Fusus dilatatus*, Quoy & Gaimard. The name given is an attempt to express my appreciation of the work on Australian Marine Mollusca still being performed by Dr. J. C. Verco.

Montrouziera, Souverbie.

Hedley has recently (Rec. Austr. Mus., vol. viii, p. 135, 1912) recorded the rediscovery of the interesting molluse which Souverbie (Journ. de Conch., vol. xi, p. 282, pl. xii, fig. 5, 1863) introduced as generically and specifically new, under the name Montrouziera elathrata. I would point out that in honouring the brilliant Montrouzier, Souverbie had been anticipated by Bigot (Ann. Soc. Ent. France, 3rd ser., vol. viii, p. 224, 1860), and consequently the molluscan genus must be renamed. I would ask Mr. Hedley to undertake this task, as to him belongs the credit of the recognition of this long-lost form, and it is only fair that he should complete this item, especially as I have already interfered in his province in the case of Panda.

¹ Latinized from πήνιον.

^{*} Errityp= = 11 1. 1000 in p. 135

Heliomanes, Moquin-Tandon.

Mr. B. B. Woodward kindly allowed me to see a proof of the List of British Non-marine Mollusca prepared by A. S. Kennard and himself. I noticed as a sub-genus of Helicella, Férussac, appeared the name Heliomanes, Moquin-Tandon, 1855. I pointed out that according to the Nomenclators this name was invalid.1 It was therefore replaced by Heliomanes, Férussac, 1821, which appears on p. 6. I had no interest in the subject, and nothing further would have been heard from me had the matter not cropped up again in a different direction. Conversing with Mr. G. K. Gude. he mentioned the genus-name Pupoides, Pfeiffer. I remembered Connolly (Revised Reference List South African Non-marine Mollusca, 1912, p. 176) had commented upon the validity of this name, whereupon Mr. Gude referred to that work. Connolly's remarks are: "There is, however, an earlier Pupoides, proposed by Férussac (Tabl. Syst., pt. 3, p. 61, 1821) as a section of Cochlodina, but on an equal footing with Clausilia, Pupa, and Cyclostoma." Mr. Gude and I then consulted Férussac's work, and our conclusions do not agree with Connolly's, and, moreover, Heliomanes occurs in the same place. Mr. Edgar A. Smith was then called in to advise, and I asked permission to put on record our results.

Pupoides occurs as quoted by Connolly on p. 61 of part iii of Férussac's Tabl. Syst., but on pp. 27-8 a synopsis is given entitled "Tableau Synoptique des subdivisions du genre Hélix, Helix, nobis". On p. 28 we have "Sixième sous-genre Helicelle, Helicella", which

is divided into

"Les Lomastomes, Lomastomæ, Les Aplostomes, Aplostomæ, Les Hygromanes, Hygromanes." Les Héliomanes, Heliomanes."

On the same page "Huitième sous-genre Cochlostyle, Cochlostyla", is divided into

"Les Lomastomes, Lomastoma," Les Aplostomes, Aplostoma,"

and, further, "Quatorzième sous-genre Cochlodine, Cochlodina," is divided into

"Les Pupoïdes, Pupoides, Les Tracheloïdes, Tracheloïdes, Les Anomales, Anomales, Les Clausilies, Clausiliæ, Draparn."

Other sectional names used are Lamellatæ, Marginatæ, Turritæ, Umbilicatæ, Perforatæ, etc.

It is obvious that such cannot be regarded as names available for generic or subgeneric usage. The fact that Heliomanes and Pupoides are Greek plurals, whereas most of the others are of Latin form, cannot legitimize these. The only conclusion possible is that Heliomanes cannot be quoted as of this introduction, and when later correctly utilized by Moquin-Tandon it had been appropriated

¹ Heliomanes, E. Newman, Ann. Nat. Hist., vol. v, p. 17, March, 1840.

previously in another sense; also *Pupoides* of this introduction has no status, and does not invalidate the later *Pupoides*, properly proposed by Pfeiffer (Mal. Blätt., i, p. 192, 1854), as suggested by Connolly, loc. cit.

It is interesting to note that when Pilsbry (Man. Conch., ser. 11, vol. ix, p. 248, 1894) used *Heliomanes*, Moquin-Tandon, 1855, as a sectional name, he wrote "Heliomanes (Fér., Tabl. Syst., not used in a generic or subgeneric sense)", a conclusion with which we agree.

The genus-name Miodon and its substitutes.

Some years ago I noticed the following paragraph in the Nautilus, vol. xvi, p. 143, April, 1903: "In the revision of the Carditacea, lately printed by the Academy of Natural Sciences. I preserved the name-Miodon for a form of Venericardia, found on the Pacific coast, and applied by Carpenter in 1864. For Miodon, Sandberger, 1870, given to a fossil form of Cyrena, the name Miodontopsis was proposed. In Sharp's Index Zoologicus, just received, I find Miodon, however, was used for an Ophidian in 1859 by Duméril, and therefore Carpenter's shell will have to have a new name also. In this case I would propose Miodontiscus for the Venericardian. W. H. Dall."

Admittedly uninterested, these remarks remained unwanted in my mind until a casual reference to Fischer's Manuel de Conchyliologie brought them back in connexion with the following sentence (p. 1187), the last words in the Manuel concerning Pélécypodes: "Coripia, de Gregorio, 1884. Ce genre, qui a pour type le Cardita corbis, Philippi, du Tertiaire supérieur, passe dans la synonymie de Miodon, Carpenter, 1864 (p. 1011), genre qu'il ne faut pas confondre avec une section des Cyrena nommée Miodon par Sandberger et dont on devra changer l'appellation en Neomiodon, Fischer, 1887." This would indicate that both Dall's names must be superseded as follows:

NEOMIODON, Fischer, Man. de Conch., p. 1187, 1887, will replace *Miodontopsis*, Dall, *Nautilus*, vol. xvi, p. 143, April, 1903, and

CORIPIA, 1 De Gregorio, Bull. Soc. Malac. Ital., vol. x, 1884, p. 153,1885, 2 will displace *Miodontiscus*, Dall, *Nautilus*, vol. xvi, p. 143, April, 1903.

TRITONIDEA, Swainson.

In these Proceedings (vol. x, p. 221, 1912), when introducing the genus-name Quoyula, I pointed out that Pollia dated from 1834, not 1839, as usually accepted, and that its type, when first proposed, was by monotypy "Triton undosus, Lam." In consequence Pollia was exactly equivalent to and antedated Tritonidea. Swainson, 1840. Since that date Tritonidea has still been used, so that I have thought it necessary to emphasize its invalidity whilst making a further contribution to this subject.

I have recently acquired a nice copy of Swainson's Treatise on Malacology, which is noteworthy in that the purchaser has inscribed

¹ A sub-genus of Cardita, for Cardita (Coripia) unidentata, Basterot=corbis, Philippi,

² In this work many unrecorded names appear. I have noted Elegantula, Anfilla, Linga, Pirtus, Timbellus, Aplus, and Algrus.

her name and date, the said date being "May, 1840". This date gives us the information that the book was published in or before that month, which is exceedingly valuable, as previously no exact date had been traced by me. Studying this work, I noted that on p. 74, when Tritonidea was first mentioned, Swainson added a footnote: "I have since learned that this genus is the same as Pollia, Gray, a name I should gladly have adopted, had it not previously been given to a genus of European Lepidoptera." On p. 302, where the genus is elaborated, a fuller explanatory footnote also appears to the same effect, Hübner and Treitsch being quoted as the authors of the Lepidopteran genus. No such genus occurs in Scudder's Nomenclator, though there is a "Polia," Ochsenh. Lep., 1816 A" given on p. 257. This genus-name would appear to have been proposed as a dedication of Poli, and would not seem to clash with Gray's Pollia, which I would guess to have been suggested by the feminine name Polly. Gray also proposed Fannya and Emma, but note my remarks re Gray under Modiolarca.

VELORITA, Gray.

This name, generally quoted as Gray, 1840, is another of the "Synopses B.M." names, where it is a nomen nudum. It apparently dates from the Proc. Zool. Soc. 1847 article. Full details of these papers have been given by me in these Proceedings (vol. x, pp. 294–309, 1913).

As a matter of fact, the name must be replaced by

VILLORITA,

as Griffith and Pidgeon, who contributed the molluscan portion of Griffith's edition of Cuvier's *Animal Kingdom*, vol. xii, had figured, on pl. xxxi, fig. 5, a shell under the name *Villorita cyprinoides*, and on p. 601, in an Alphabetical List of the Figures, gave the further information

"pl. 31, fig. 5, Villorita cyprinoides, Gray.

(Cyrena cyprinoides, Wood) Olive Green."

A note is given, which reads: "Most of the inedited shells figured in this work are from the collection in the British Museum." The plate is dated 1833, whilst, as the title-page indicates, the volume was completed in 1834. We can thus assume that as early as 1833, Gray, after the custom of his time, had labelled the shell in the British Museum with the name of Villorita cyprinoides, and that Griffith and Pidgeon introduced this into literature. Seven years later Gray apparently altered the spelling to Velorita, by which name it has since been known. The spelling Villorita does not occur in Scudder's Nomenclator, nor has it otherwise been recorded, though Littoraria, introduced in the same manner and place, is duly recorded. A peculiar circumstance has been noted, viz. that Fischer in his Manuel (p. 1092, 1887) dates Velorita of Gray back to 1834, which suggests that he had an inkling of Griffith and Pidgeon's usage.

Huebner introduced it in 1806 as a nomen nudum, which was taken up by Ochsenheimer in 1816 and Treitschka in 1825. Polia was also proposed by Chiaje in 1827 for a member of the Order Vermes.